AMENDMENTS TO THE CLAIMS

1. **(Currently amended)** An electrolyte for the galvanic deposition of aluminum-magnesium alloys, containing at least one organoaluminum complex compound of formula $MAlR_4$ or mixtures thereof and an alkylmagnesium compound, wherein M represents Na, K, Rb or Cs, and R represents a C_1-C_{10} alkyl group~~, preferably a C_1-C_4 alkyl group~~.

2. **(Currently amended)** The electrolyte according to claim 1, ~~characterized in that~~ wherein the electrolyte additionally includes trialkylaluminum.

3. **(Currently amended)** The electrolyte according to claim ~~1 or~~ 2, ~~characterized in that~~ wherein the electrolyte includes AlR_3, M^1AlR_4, M^2AlR_4 and $Mg(R^1)_x(R^2)_y$, wherein M^1 and M^2 are different from each other, representing Na, K, Rb or Cs, R represents a C_1-C_{10} alkyl group~~,~~ ~~preferably a C_1-C_4 alkyl group~~, R^1 and R^2 independently represent a C_1-C_{20}~~, preferably a C_2-C_{10}~~ alkyl group, and x = 0 to 2, and y = 0 to 2, and x + y = 2.

4. **(Currently amended)** The electrolyte according to~~ one or more of claims 1 to~~ Claim 3, ~~characterized in that~~ wherein the alkylmagnesium compound is included in an amount of from 0.01 to 10 mole-%, ~~preferably from 0.1 to 1 mole-%,~~ relative to the aluminum complex.

5. **(Currently amended)** The electrolyte according to~~ one or more of claims 1 to~~ Claim 4, ~~characterized in that~~ the alkylmagnesium compound is selected from the group of $Mgbutyl_{1.5}octyl_{0.5}$, $Mgbutyl_{1.0}ethyl_{1.0}$, Mgsec-$butyl_{1.0}$n-$butyl_{1.0}$ or mixtures thereof.

6. **(Currently amended)** The electrolyte according to~~ one or more of claims~~ Claim 1 ~~to 5~~, ~~characterized in that~~ wherein the electrolyte includes an organic solvent.

7. **(Currently amended)** The electrolyte according to claim 6, ~~characterized in that~~ wherein the organic solvent is an aromatic solvent.

8. **(Currently amended)** The electrolyte according to claim 7, ~~characterized in that~~ wherein the aromatic solvent is benzene, toluene or xylene or a mixture thereof.

9. **(Currently amended)** A method for the production of the electrolyte according to ~~claims~~ Claim 1 ~~to 8~~, comprising ~~characterized by the following steps~~:

-supplying an organoaluminum complex compound of formula $MAlR_4$ or a mixture thereof, ~~optionally in combination with trialkylaluminum,~~ and

-~~addition of~~ adding an alkylmagnesium compound,

wherein M represents Na, K, Rb or Cs, and R represents a C_1-C_{10} alkyl group~~, preferably a C_1-C_4 alkyl group~~.

10. **(Currently amended)** The method according to claim 9, ~~characterized in that~~ wherein the organoaluminum complex compound is a mixture of M^1AlR_4 and M^2AlR_4, wherein M^1 and M^2 are different from each other, representing Na, K, Rb or Cs, R represents a C_1-C_{10} alkyl group~~, preferably a C_1-C_4 alkyl group~~.

11. **(Currently amended)** The method according to claim 9, ~~characterized in that~~ wherein the alkylmagnesium compound is $Mg(R^1)_x(R^2)_y$, wherein R^1 and R^2 independently represent a C_1-C_{20}, ~~preferably a C_2-C_{10} alkyl group,~~ and x = 0 to 2, and y = 0 to 2, and x + y = 2.

12. **(Currently amended)** The method according to Claim ~~one or more of claims 9 to~~ 11, ~~characterized in that~~ wherein the alkylmagnesium compound is added dissolved in a hydrocarbon.

13. **(Currently amended)** The method according to Claim ~~one or more of claims 9 to~~ 11, ~~characterized in that~~ wherein the alkylaluminum complex is supplied dissolved in an aromatic hydrocarbon.

14. **(Currently amended)** The method according to claim 12, ~~characterized in that~~ wherein the hydrocarbon is a saturated or unsaturated hydrocarbon.

15. **(Currently amended)** The method according to claim 14, ~~characterized in that~~ wherein the hydrocarbon is selected from the group of i-pentane, n-pentane, hexane, n-hexane, heptane, n-heptane, toluene, xylene.

16. **(Currently amended)** An electrolyte for the production of aluminum-magnesium alloys on electrically conducting materials or electrically conducting layers, which can be produced according to the method of ~~claims~~ Claim 9 ~~to 15~~.

17. **(Currently amended)** A method of coating electrically conducting materials or layers with aluminum-magnesium alloys comprising coating said electrically conducting materials or layers with ~~using~~ the electrolyte in accordance with Claim ~~claims~~ 1 ~~to 8~~, in which method the alkylmagnesium compound is metered during coating.

18. **(Cancelled)**

19. **Currently amended)** An electrolysis kit for the galvanic deposition of aluminum-magnesium alloys on electrically conducting materials or layers, including:

(a) the organoaluminum complex compounds or alkylaluminum compounds of ~~claims~~ Claim 1 ~~to 3~~; and

(b) an alkylmagnesium compound in accordance with ~~claims~~ Claim 1~~, 3, 5~~.

20. **(Currently amended)** The electrolysis kit according to claim 19, ~~characterized in that~~ wherein the compounds (a) and (b) are present in an organic solvent.

21. **(New)** The electrolyte of Claim 3, wherein R represents C_1-C_4 alkyl group.

22. **(New)** The electrolyte of Claim 3, wherein R^1 anR^2 independently represent a C_2-C_{10} alkyl group.

23. **(New)** The electrolyte of Claim 4, wherein the alkylmagnesium compound is included in an amount of from 0.1 to 1 mole% relative to the aluminum complex.

24. **(New)** The method of Claim 9, wherein the organoaluminum complex compound of formula $MAIR_4$ is supplied in combination with trialkylaluminum.

25. **(New)** The method of Claim 9, wherein R represents a C_1-C_4 alkyl group.

26. **(New)** The method of Claim 11, wherein R^1 and R^2 independently represent a C_2-C_{10} alkyl group.